THE CONTROLLED SEPARABLE COMPLEMENTATION PROPERTY AND MONOLITHIC COMPACTA

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Communicated by J. E. Ball

ABSTRACT. For a compact K, a necessary condition for $C(K)$ to have the Controlled Separable Complementation Property is that K be monolithic. In this paper, we prove that when K contains no copy of $[0, \omega^\omega]$ and the set of points which admit a countable neighborhood base is a cofinite subset of K, then monolithicity of K is sufficient for $C(K)$ to enjoy the Controlled Separable Complementation Property. We also show that, for this type of compacta K, the space $C(K)$ is separably extensible.

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